



Nobis Engineering, Inc.
18 Chenell Drive
Concord, NH 03301
Tel (603) 224-4182
Fax (603) 224-2507
www.nobisengineering.com

May 5, 2006
File No. 49400.19

Mr. George Papadopolous
United States Environmental Protection Agency
RGP-NOI Processing
Municipal Assistance Unit (CMU)
1 Congress Street, Suite 1100
Boston, MA 02114-2023

Re: Remediation General Permit – Notice of Intent
Murphy's Mobil (Former Greene's Corner Store)
346 Whittier Highway (Route 25)
Moultonboro, New Hampshire
NHDES Site #198102000-LUST-WLP3
UST Facility #0-11239

Dear Mr. Papadopolous

Attached you will find the completed Remediation General Permit – Notice of Intent (RGP-NOI) for the above-referenced site and its additional information. Nobis Engineering, Inc. will be operating a temporary pilot-scale test of a groundwater remediation system at the site at the request of the New Hampshire Department of Environmental Services (NHDES). The pilot-scale test is anticipated to run for approximately two months; however, following that period NHDES may request that the test be continued.

If you have any questions or require additional information, please do not hesitate to contact the undersigned at (603) 224-4182.

Sincerely,

NOBIS ENGINEERING, INC.

Kelly Amato
For: David W. Gorhan
Project Scientist

Robert B. Kleiner
Robert B. Kleiner, P.G.
Project Manager

Attachments: RGP-NOI

cc: Mr. Richard Murphy, ERRIS, LLC, P.O. Box 1419, Center Harbor, NH 03226
New Hampshire Department of Environmental Services, Water Division, Wastewater Engineering
Bureau, PO Box 95, 29 Hazen Drive, Concord, NH 03302-0095
Town Clerk, Town of Moultonborough, P.O. Box 15, Moultonborough, NH 03254

B. Suggested Form for Notice of Intent (NOI) for the Remediation General Permit**1. General site information.** Please provide the following information about the site:

a) Name of facility/site: Murphy's Mobil		Facility/site address:	
Location of facility/site: longitude: <u>71°25'58"</u> latitude: <u>43°43'14"</u>	Facility SIC code(s): N/A	Street: 346 Whittier Highway	
b) Name of facility/site owner: ERRIS, LLC c/o Richard Murphy		Town: Moultonborough	
Email address of owner: rmsmcm@hotmail.com	State: NH	Zip: 03254	County: Carroll
Telephone no. of facility/site owner: (603) 253-7146			
Fax no. of facility/site owner:	Owner is (check one): 1. Federal____ 2. State/Tribal____ 3. Private <input checked="" type="checkbox"/> 4. other, if so, describe:		
Address of owner (if different from site):			
Street: P.O. Box 1419			
Town: Center Harbor	State: NH	Zip: 03326	County: Belknap
c) Legal name of operator: Nobis Engineering, Inc.	Operator telephone no: (603) 224-4182		
	Operator fax no.: (603) 224-2507		Operator email: rkleiner@nobisengineering.com
Operator contact name and title: Robert Kleiner, Project Manager			

Address of operator (if different from owner):		Street: 18 Chenell Drive	
Town: Concord	State: NH	Zip: 03301	County: Merrimack
d) Check "yes" or "no" for the following: 1. Has a prior NPDES permit exclusion been granted for the discharge? Yes___ No <input checked="" type="checkbox"/> , if "yes," number: 2. Has a prior NPDES application (Form 1 & 2C) ever been filed for the discharge? Yes___ No <input checked="" type="checkbox"/> , if "yes," date and tracking #: 3. Is the discharge a "new discharge" as defined by 40 CFR 122.2? Yes <input checked="" type="checkbox"/> No___ 4. For sites in Massachusetts, is the discharge covered under the MA Contingency Plan (MCP) and exempt from state permitting? Yes___ No___			
e) Is site/facility subject to any State permitting or other action which is causing the generation of discharge? Yes <input checked="" type="checkbox"/> No___ If "yes," please list: 1. site identification # assigned by the state of NH or MA: NH - 198102000 2. permit or license # assigned: GWP-198102000-M-001 3. state agency contact information: name, location, and telephone number: Worthen Muzzey, NHDES, 29 Hazen Drive, Concord, NH 603-271-2867		f) Is the site/facility covered by any other EPA permit, including: 1. multi-sector storm water general permit? Y___ N <input checked="" type="checkbox"/> , if Y, number: 2. phase I or II construction storm water general permit? Y___ N <input checked="" type="checkbox"/> , if Y, number: 3. individual NPDES permit? Y___ N <input checked="" type="checkbox"/> , if Y, number: 4. any other water quality related permit? Y___ N <input checked="" type="checkbox"/> , if Y, number:	

2. Discharge information. Please provide information about the discharge, (attaching additional sheets as needed) including:

a) Describe the discharge activities for which the owner/applicant is seeking coverage: Discharge will be effluent from a high vacuum total fluids extraction (HUTFE) groundwater treatment system pilot test operating for a period of 2 months.		
b) Provide the following information about each discharge:	1) Number of discharge points: 1	2) What is the maximum and average flow rate of discharge (in cubic feet per second, ft ³ /s)? Max. flow 0.01 Average flow .002 Is maximum flow a design value ? Y___ N <input checked="" type="checkbox"/> For average flow, include the units and appropriate notation if this value is a design value or estimate if not available. Maximum and average flow rates are estimates.
	3) Latitude and longitude of each discharge within 100 feet: pt.1: long. lat. ; pt.2: long. lat. ; pt.3: long. lat. ; pt.4: long. lat. ; pt.5: long. lat. ; pt.6: long. lat. ; pt.7: long. lat. ; pt.8: long. lat. ; etc.	

4) If hydrostatic testing, total volume of the discharge (gals):	5) Is the discharge intermittent <input checked="" type="checkbox"/> or seasonal _____? Is discharge ongoing Yes _____ No <input checked="" type="checkbox"/> ?
c) Expected dates of discharge (mm/dd/yy): start <u>05/29/06</u> end <u>08/04/06</u>	
d) Please attach a line drawing or flow schematic showing water flow through the facility including: 1. sources of intake water, 2. contributing flow from the operation, 3. treatment units, and 4. discharge points and receiving waters(s).	



USGS TOPOGRAPHIC MAP
CENTER HARBOR, NEW HAMPSHIRE
PROVISIONAL EDITION 1987

APPROXIMATE SCALE
1 INCH = 2,000 FEET

FIGURE 1

LOCUS PLAN
MURPHY'S MOBIL
346 WHITTIER HIGHWAY
MOULTONBORO, NEW HAMPSHIRE



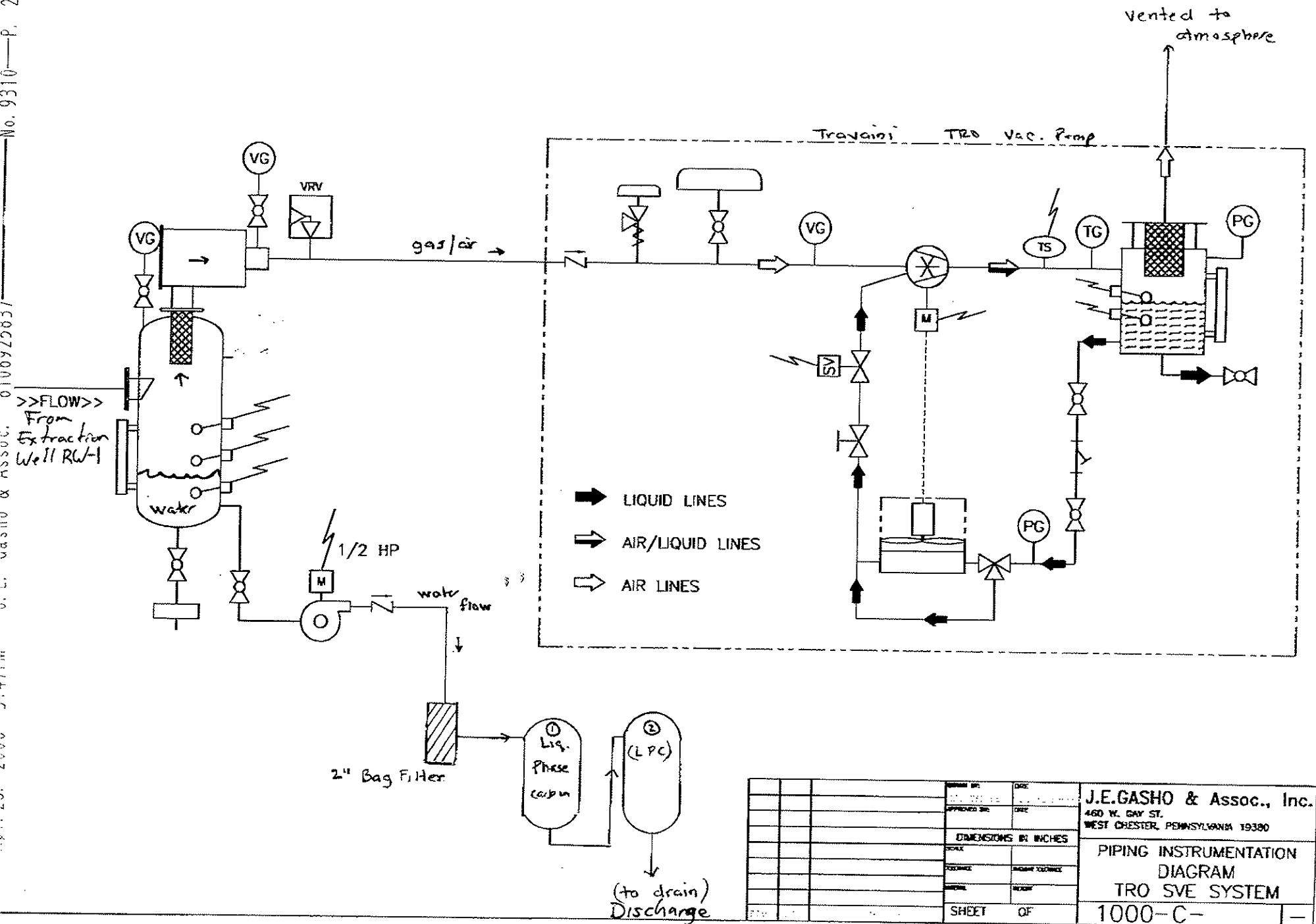
Nobis Engineering, Inc.
18 Chenell Drive
Concord, NH 03301
Tel (603) 224-4182
Fax (603) 224-2507
www.nobisengineering.com



QUADRANGLE LOCATION

PROJECT: 49400.19

MAY 2006



J.E.GASHO & Assoc., Inc.			
460 W. GAY ST.			
WEST CHESTER, PENNSYLVANIA 19380			
PIPING INSTRUMENTATION			
DIAGRAM			
TRO SVE SYSTEM			
1000-C-			
SHEET		OF	

3. Contaminant information. In order to complete this section, the applicant will need to take a minimum of one sample of the untreated water and have it analyzed for **all** of the parameters listed in Appendix III. Historical data, (i.e., data taken no more than 2 years prior to the effective date of the permit) may be used if obtained pursuant to: i. Massachusetts' regulations 310 CMR 40.0000, the Massachusetts Contingency Plan ("Chapter 21E"); ii. New Hampshire's Title 50 RSA 485-A: Water Pollution and Waste Disposal or Title 50 RSA 485-C: Groundwater Protection Act; or iii. an EPA permit exclusion letter issued pursuant to 40 CFR 122.3, provided the data was analyzed with test methods that meet the requirements of this permit. Otherwise, a new sample shall be taken and analyzed.

a) Based on the analysis of the sample(s) of the untreated influent, the applicant must check the box of the sub-categories that the potential discharge falls within.

Gasoline Only <input checked="" type="checkbox"/>	VOC Only	Primarily Metals	Urban Fill Sites	Contaminated Sumps	Mixed Contaminants	Aquifer Testing
Fuel Oils (and Other Oils) only	VOC with Other Contaminants	Petroleum with Other Contaminants	Listed Contaminated Sites	Contaminated Dredge Condensates	Hydrostatic Testing of Pipelines/Tanks	Well Development or Rehabilitation

b) Based on the analysis of the untreated influent, the applicant must indicate whether each listed chemical is **believed present** or **believed absent** in the potential discharge. Attach additional sheets as needed.

PARAMETER	Believe Absent	Believe Present	# of Samples (1 minimum)	Type of Sample (e.g., grab)	Analytical Method Used (method #)	Minimum Level (ML) of Test Method	Maximum daily value		Avg. daily value	
							concentration (ug/l)	mass (kg)	concentration (ug/l)	mass (kg)
1. Total Suspended Solids	<input checked="" type="checkbox"/>		0							
2. Total Residual Chlorine	<input checked="" type="checkbox"/>		0							
3. Total Petroleum Hydrocarbons	<input checked="" type="checkbox"/>		0							
4. Cyanide	<input checked="" type="checkbox"/>		0							
5. Benzene		<input checked="" type="checkbox"/>	1	Grab	8260B	0.5	3700	0.1		
6. Toluene		<input checked="" type="checkbox"/>	1	Grab	8260B	1.0	23000	0.63		
7. Ethylbenzene		<input checked="" type="checkbox"/>	1	Grab	8260B	1.0	3600	0.1		
8. (m,p,o) Xylenes		<input checked="" type="checkbox"/>	1	Grab	8260B	1.0	24100	0.68		
9. Total BTEX ⁴		<input checked="" type="checkbox"/>	1	Grab	8260B		54400	1.5		

⁴ BTEX = Sum of Benzene, Toluene, Ethylbenzene, total Xylenes.

PARAMETER	Believe Absent	Believe Present	# of Samples (1 minimum)	Type of Sample (e.g., grab)	Analytical Method Used (method #)	Minimum Level (ML) of Test Method	Maximum daily value		Avg. daily value	
							concentration (ug/l)	mass (kg)	concentration (ug/l)	mass (kg)
10. Ethylene Dibromide (1,2- Dibromo-methane)	✓		1	Grab	8260B	0.015	<200			
11. Methyl-tert-Butyl Ether (MtBE)	✓		1	Grab	8260B	5.0	<100			
12. tert-Butyl Alcohol (TBA)	✓		1	Grab	8260B	100	<3000			
13. tert-Amyl Methyl Ether (TAME)	✓		1	Grab	8260B	2.0	<500			
14. Naphthalene		✓	1	Grab	8260B	20	800	0.02		
15. Carbon Tetra-chloride	✓		1	Grab	8260B	1.0	<100			
16. 1,4 Dichlorobenzene	✓		1	Grab	8260B	1.0	<100			
17. 1,2 Dichlorobenzene	✓		1	Grab	8260B	1.0	<100			
18. 1,3 Dichlorobenzene	✓		1	Grab	8260B	1.0	<100			
19. 1,1 Dichloroethane	✓		1	Grab	8260B	1.0	<100			
20. 1,2 Dichloroethane	✓		1	Grab	8260B	1.0	<100			
21. 1,1 Dichloroethylene	✓		1	Grab	8260B	1.0	<100			
22. cis-1,2 Dichloro-ethylene	✓		1	Grab	8260B	25	<100			
23. Dichloromethane (Methylene Chloride)	✓		1	Grab	8260B	2.0	<500			
24. Tetrachloroethylene	✓		1	Grab	8260B	1.0	<100			

PARAMETER	Believe Absent	Believe Present	# of Samples (1 minimum)	Type of Sample (e.g., grab)	Analytical Method Used (method #)	Minimum Level (ML) of Test Method	Maximum daily value		Avg. daily Value	
							concentration (ug/l)	mass (kg)	concentration (ug/l)	mass (kg)
25. 1,1,1 Trichloroethane	✓		1	Grab	8260B	1.0	<100			
26. 1,1,2 Trichloroethane	✓		1	Grab	8260B	1.0	<100			
27. Trichloroethylene	✓		1	Grab	8260B	1.0	<100			
28. Vinyl Chloride	✓		1	Grab	8260B	1.0	<200			
29. Acetone	✓		1	Grab	8260B	5.0	<1000			
30. 1,4 Dioxane	✓		0	Grab	8260B	25				
31. Total Phenols	✓		1	Grab	8270C	1.0	ND			
32. Pentachlorophenol	✓		1	Grab	8270C	5.0	<5			
33. Total Phthalates ⁵ (Phthalate esthers)	✓		1	Grab	8270C	5.0	<60			
34. Bis (2-Ethylhexyl) Phthalate [Di-(ethylhexyl) Phthalate]	✓		1	Grab	8270C	5.0	<10			
35. Total Group I Polycyclic Aromatic Hydrocarbons (PAH)		✓	1	Grab	8270C					
a. Benzo(a) Anthracene		✓	1	Grab	8270C	5.0	2	5.5E-5		
b. Benzo(a) Pyrene	✓		1	Grab	8270C	10	<10			
c. Benzo(b)Fluoranthene	✓		1	Grab	8270C	10	<10			
d. Benzo(k) Fluoranthene	✓		1	Grab	8270C	10	<10			
e. Chrysene		✓	1	Grab	8270C	10	1	2.7E-5		

⁵The sum of individual phthalate compounds.

PARAMETER	Believe Absent	Believe Present	# of Samples (1 minimum)	Type of Sample (e.g., grab)	Analytical Method Used (method #)	Minimum Level (ML) of Test Method	Maximum daily value		Average daily value	
							concentration (ug/l)	mass (kg)	concentration (ug/l)	mass (kg)
f. Dibenzo(a,h) anthracene	✓		1	Grab	8270C	10	<10			
g. Indeno(1,2,3-cd) Pyrene	✓		1	Grab	8270C	10	<10			
36. Total Group II Polycyclic Aromatic Hydrocarbons (PAH)		✓	1	Grab	8270C		560			
h. Acenaphthene	✓		1	Grab	8270C	1.0	<10			
i. Acenaphthylene	✓		1	Grab	8270C	10	<10			
j. Anthracene	✓		1	Grab	8270C	10	<10			
k. Benzo(ghi) Perylene	✓		1	Grab	8270C	5.0	<10			
l. Fluoranthene	✓		1	Grab	8270C	1.0	<10			
m. Fluorene		✓	1	Grab	8270C	10	10	2.7E-4		
n. Naphthalene-		✓	1	Grab	8270C	2	530	3.2E-2		
o. Phenanthrene		✓	1	Grab	8270C	5	20	1.5E-2		
p. Pyrene	✓		1	Grab	8270C	10	<10	5.5E-4		
37. Total Polychlorinated Biphenyls (PCBs)	✓		1	Grab	8082	0.35	<0.35			
38. Antimony	✓		1	Grab	200.8	5.0	<1			
39. Arsenic		✓	1	Grab	200.8	5.0	5	1.4E-4		
40. Cadmium	✓		1	Grab	200.8	0.5	<1			
41. Chromium III	✓		1	Grab	200.8		6	1.6E-4		
42. Chromium VI	✓		1	Grab	7196A	500	<50			

PARAMETER	Believe Absent	Believe Present	# of Samples (1 minimum)	Type of Sample (e.g., grab)	Analytical Method Used (method #)	Minimum Level (ML) of Test Method	Maximum daily value		Avg. daily value	
							concentration (ug/l)	mass (kg)	concentration (ug/l)	mass (kg)
43. Copper		✓	1	Grab	200.8	25	7	1.9E-4		
44. Lead		✓	1	Grab	200.8	2.0	84	2.3E-3		
45. Mercury	✓		1	Grab	200.8	0.2	<1			
46. Nickel		✓	1	Grab	200.8	5.0	7	1.9E-4		
47. Selenium		✓	1	Grab	200.8	5.0	3	8.2E-5		
48. Silver	✓		1	Grab	200.8	0.5	<1			
49. Zinc		✓	1	Grab	200.8	20	32	8.6E-4		
50. Iron		✓	1	Grab	200.8	100	7400	0.2		
Other (describe):										

c) For discharges where **metals** are believed present, please fill out the following:

<p><i>Step 1:</i> Do any of the metals in the influent have a reasonable potential to exceed the effluent limits in Appendix III (i.e., the limits set at zero to five dilutions)? Y <u>✓</u> N <u> </u></p>	<p>If yes, which metals? Ar, Cr (III), Cu, Pb, Ni, Zn, Fe</p>
<p><i>Step 2:</i> For any metals which have reasonable potential to exceed the Appendix III limits, calculate the dilution factor (DF) using the formula in Part I.A.3.c) (step 2) of the NOI instructions or as determined by the State prior to the submission of this NOI. What is the dilution factor for applicable metals? Metals: Ar, Cr (III), Cu, Pb, Ni, Zn, Fe</p> <p>DF: <u>0.9</u></p>	<p>Look up the limit calculated at the corresponding dilution factor in Appendix IV. Do any of the metals in the influent have the potential to exceed the corresponding effluent limits in Appendix IV (i.e., is the influent concentration above the limit set at the calculated dilution factor)? Y <u>✓</u> N <u> </u> If "Yes," list which metals: Cu, Pb, Fe</p>

4. Treatment system information. Please describe the treatment system using separate sheets as necessary, including:

<p>a) A description of the treatment system, including a schematic of the proposed or existing treatment system:</p> <p>The influent will be pumped through two bag filters (100 micron) and two 30-pound granular activated carbon (GAC) vessels, connected in series, prior to discharge.</p>						
b) Identify each applicable treatment unit (check all that apply):	Frac. tank	Air stripper ✓	Oil/water separator	Equalization tanks	Bag filter ✓	GAC filter ✓
	Chlorination	Dechlorination	Other (please describe):			
<p>c) Proposed average and maximum flow rates (gallons per minute) for the discharge and the design flow rate(s) (gallons per minute) of the treatment system: Average flow rate of discharge <u>1</u> Maximum flow rate of treatment system <u>5</u> Design flow rate of treatment system <u>5</u></p>						
<p>d) A description of chemical additives being used or planned to be used (attach MSDS sheets):</p> <p>N/A</p>						

5. Receiving surface water(s). Please provide information about the receiving water(s), using separate sheets as necessary:

a) Identify the discharge pathway:	Direct _____	Within facility _____	Storm drain <u>✓</u>	River/brook _____	Wetlands _____	Other (describe):
<p>b) Provide a narrative description of the discharge pathway, including the name(s) of the receiving waters:</p> <p>The Stormdrain that we are connecting to is located at station 274+00, slightly southwest of the site on the southern side of Route 25. The drain goes into a 15 inch underdrain along the southern side of Route 25 and crosses to the northern side at approximately 270+30. The drain is then RCP and runs along the northern side of Route 25 in the southwest direction to a concrete apron and NHDOT constructed drainage ditch at 267+50 and finally discharges into a seasonal, unnamed stream at 266+00. Attached is a USGS map with the site and outfall on it, if this is correct to the best of your knowledge please let me know.</p>						

<p>c) Attach a detailed map(s) indicating the site location and location of the outfall to the receiving water:</p> <p>1. For multiple discharges, number the discharges sequentially.</p> <p>2. For indirect dischargers, indicate the location of the discharge to the indirect conveyance and the discharge to surface water</p> <p>The map should also include the location and distance to the nearest sanitary sewer as well as the locus of nearby sensitive receptors (based on USGS topographical mapping), such as surface waters, drinking water supplies, and wetland areas.</p>
<p>d) Provide the state water quality classification of the receiving water <u>B</u>.</p>
<p>e) Provide the reported or calculated seven day-ten year low flow (7Q10) of the receiving water <u>N/A</u> cfs</p> <p>Please attach any calculation sheets used to support stream flow and dilution calculations.</p>
<p>f) Is the receiving water a listed 303(d) water quality impaired or limited water? Yes <u> </u> No <u>✓</u> If yes, for which pollutant(s)?</p> <p>Is there a TMDL? Yes <u> </u> No <u>✓</u> If yes, for which pollutant(s)?</p>

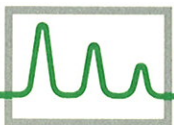
6. Results of Consultation with Federal Services: Please provide the following information according to requirements of Part I.B.4 and Appendices II and VII.

<p>a) Are any listed threatened or endangered species, or designated critical habitat, in proximity to the discharge? Yes <u> </u> No <u>✓</u></p> <p>Has any consultation with the federal services been completed? No <u>✓</u> or is consultation underway? Yes <u> </u> No <u> </u></p> <p>What were the results of the consultation with the U.S. Fish and Wildlife Service and/or National Marine Fisheries Service (check one):</p> <p>a "no jeopardy" opinion? <u> </u> or written concurrence <u> </u> on a finding that the discharges are not likely to adversely affect any endangered species or critical habitat?</p>
<p>b) Are any historic properties listed or eligible for listing on the National Register of Historic Places located on the facility or site or in proximity to the discharge?</p> <p>Yes <u> </u> No <u>✓</u> Have any state or tribal historic preservation officer been consulted in this determination (Massachusetts only)? Yes <u> </u> No <u> </u></p>

7. Supplemental information. :

Please provide any supplemental information. Attach any analytical data used to support the application. Attach any certification(s) required by the general permit.

5



eastern analytical

professional laboratory services

Bob Kleiner
Nobis Engineering
18 Chenell Drive
Concord, NH 03301



Subject: Laboratory Report

Eastern Analytical, Inc. ID: 54344

Client Identification: Murphy's Mobil | 49400.19

Date Received: 4/24/2006

Dear Mr. Kleiner:

Enclosed please find the laboratory report for the above identified project. All analyses were performed in accordance with our QA/QC Program. Unless otherwise stated, holding times, preservation techniques, container types, and sample conditions adhered to EPA Protocol. Samples which were collected by Eastern Analytical, Inc. (EAI) were collected in accordance with approved EPA procedures. Eastern Analytical, Inc. certifies that the enclosed test results meet all requirements of NELAP and other applicable state certifications. Please refer to our website at www.eailabs.com for a copy of our NELAP certificate and accredited parameters.

The following standard abbreviations and conventions apply to all EAI reports:

Solid samples are reported on a dry weight basis, unless otherwise noted

< : "less than" followed by the reporting limit

TNR: Testing Not Requested

ND: None Detected, no established detection limit

RL: Reporting Limits

%R: % Recovery

Eastern Analytical Inc. maintains certification in the following states: Connecticut (PH-0492), Maine (NH005), Massachusetts (M-NH005), New Hampshire/NELAP (1012), Rhode Island (269) and Vermont (VT1012).

This report package contains the following information: Sample Conditions summary, Analytical Results/Data and copies of the Chain of Custody. This report may not be reproduced except in full, without the the written approval of the laboratory.

If you have any questions regarding the results contained within, please feel free to directly contact me or the chemist(s) who performed the testing in question. Unless otherwise requested, we will dispose of the sample(s) 30 days from the sample receipt date.

We appreciate this opportunity to be of service and look forward to your continued patronage.

Sincerely,


Lorraine Olashaw, Lab Director

5.2.06
Date

10
of pages (excluding cover letter)



SAMPLE CONDITIONS PAGE

Eastern Analytical, Inc. ID#: **54344**

Client: **Nobis Engineering**

Client Designation: **Murphy's Mobil | 49400.19**

Temperature upon receipt (°C): **3**

Received on ice or cold packs (Yes/No): **Y**

Lab ID	SampleID	Date Received	Date Sampled	Sample Matrix	% Dry Weight	Exceptions/Comments (other than thermal preservation)
54344.01	MW-12	4/24/06	4/24/06	aqueous		Adheres to Sample Acceptance Policy
54344.02	MW-13	4/24/06	4/24/06	aqueous		Adheres to Sample Acceptance Policy
54344.03	MW-14	4/24/06	4/24/06	aqueous		Adheres to Sample Acceptance Policy
54344.04	RW-1	4/24/06	4/24/06	aqueous		Adheres to Sample Acceptance Policy
54344.05	Trip Blank	4/24/06	4/17/06	aqueous		Adheres to Sample Acceptance Policy

Samples were properly preserved and the pH measured when applicable unless otherwise noted. Analysis of solids for pH, Flashpoint, Ignitibility, Paint Filter, Corrosivity, Conductivity and Specific Gravity are reported on an "as received" basis.

All results contained in this report relate only to the above listed samples.

References include:

- 1) EPA 600/4-79-020, 1983*
- 2) Standard Methods for Examination of Water and Wastewater : Inorganics, 19th Edition, 1995; Microbiology, 20th Edition, 1998*
- 3) Test Methods for Evaluating Solid Waste SW 846 3rd Edition including updates IVA and IVB*
- 4) Hach Water Analysis Handbook, 2nd edition, 1992*



LABORATORY REPORT

Eastern Analytical, Inc. ID#: 54344

Client: Nobis Engineering

Client Designation: Murphy's Mobil | 49400.19

Sample ID:	MW-12	MW-13	MW-14	RW-1	Trip Blank
Lab Sample ID:	54344.01	54344.02	54344.03	54344.04	54344.05
Matrix:	aqueous	aqueous	aqueous	aqueous	aqueous
Date Sampled:	4/24/06	4/24/06	4/24/06	4/24/06	4/17/06
Date Received:	4/24/06	4/24/06	4/24/06	4/24/06	4/24/06
Units:	ug/l	ug/l	ug/l	ug/l	ug/l
Date of Analysis:	4/27/06	4/28/06	4/28/06	4/25/06	4/28/06
Analyst:	JDS	JDS	VG	JDS	VG
Method:	8260B	8260B	8260B	8260B	8260B
Dilution Factor:	1	1	1	100	1

Dichlorodifluoromethane	< 5	< 5	< 5	< 500	< 5
Chloromethane	< 5	< 5	< 5	< 500	< 5
Vinyl chloride	< 2	< 2	< 2	< 200	< 2
Bromomethane	< 2	< 2	< 2	< 200	< 2
Chloroethane	< 5	< 5	< 5	< 500	< 5
Trichlorofluoromethane	< 5	< 5	< 5	< 500	< 5
Diethyl Ether	< 5	< 5	< 5	< 500	< 5
Acetone	< 10	< 10	< 10	< 1000	< 10
1,1-Dichloroethene	< 1	< 1	< 1	< 100	< 1
tert-Butyl Alcohol (TBA)	< 30	< 30	< 30	< 3000	< 30
Methylene chloride	< 5	< 5	< 5	< 500	< 5
Carbon disulfide	< 5	< 5	< 5	< 200	< 5
Methyl-t-butyl ether(MTBE)	< 5	< 5	< 5	< 100	< 5
Ethyl-t-butyl ether(ETBE)	< 5	< 5	< 5	< 500	< 5
Isopropyl ether(DIPE)	< 5	< 5	< 5	< 500	< 5
tert-amyl methyl ether(TAME)	< 5	< 5	< 5	< 500	< 5
trans-1,2-Dichloroethene	< 2	< 2	< 2	< 100	< 2
1,1-Dichloroethane	< 2	< 2	< 2	< 100	< 2
2,2-Dichloropropane	< 2	< 2	< 2	< 100	< 2
cis-1,2-Dichloroethene	< 2	< 2	< 2	< 100	< 2
2-Butanone(MEK)	< 10	< 10	< 10	< 1000	< 10
Bromochloromethane	< 2	< 2	< 2	< 100	< 2
Tetrahydrofuran(THF)	< 10	< 10	< 10	< 1000	< 10
Chloroform	< 2	< 2	< 2	< 100	< 2
1,1,1-Trichloroethane	< 2	< 2	< 2	< 100	< 2
Carbon tetrachloride	< 2	< 2	< 2	< 100	< 2
1,1-Dichloropropene	< 2	< 2	< 2	< 100	< 2
Benzene	< 1	< 1	< 1	3700	< 1
1,2-Dichloroethane	< 2	< 2	< 2	< 100	< 2
Trichloroethene	< 2	< 2	< 2	< 100	< 2
1,2-Dichloropropane	< 2	< 2	< 2	< 100	< 2
Dibromomethane	< 2	< 2	< 2	< 100	< 2
Bromodichloromethane	< 2	< 2	< 2	< 100	< 2
4-Methyl-2-pentanone(MIBK)	< 10	< 10	< 10	< 1000	< 10
cis-1,3-Dichloropropene	< 2	< 2	< 2	< 100	< 2
Toluene	< 1	4	< 1	23000	< 1
trans-1,3-Dichloropropene	< 2	< 2	< 2	< 100	< 2
1,1,2-Trichloroethane	< 2	< 2	< 2	< 100	< 2
2-Hexanone	< 10	< 10	< 10	< 1000	< 10
Tetrachloroethene	< 2	< 2	< 2	< 100	< 2
1,3-Dichloropropane	< 2	< 2	< 2	< 100	< 2
Dibromochloromethane	< 2	< 2	< 2	< 100	< 2
1,2-Dibromoethane	< 2	< 2	< 2	< 200	< 2
Chlorobenzene	< 2	< 2	< 2	< 100	< 2
1,1,1,2-Tetrachloroethane	< 2	< 2	< 2	< 100	< 2
Ethylbenzene	< 1	190	< 1	3600	< 1



LABORATORY REPORT

Eastern Analytical, Inc. ID#: **54344**

Client: **Nobis Engineering**

Client Designation: **Murphy's Mobil | 49400.19**

Sample ID:	MW-12	MW-13	MW-14	RW-1	Trip Blank
Lab Sample ID:	54344.01	54344.02	54344.03	54344.04	54344.05
Matrix:	aqueous	aqueous	aqueous	aqueous	aqueous
Date Sampled:	4/24/06	4/24/06	4/24/06	4/24/06	4/17/06
Date Received:	4/24/06	4/24/06	4/24/06	4/24/06	4/24/06
Units:	ug/l	ug/l	ug/l	ug/l	ug/l
Date of Analysis:	4/27/06	4/28/06	4/28/06	4/25/06	4/28/06
Analyst:	JDS	JDS	VG	JDS	VG
Method:	8260B	8260B	8260B	8260B	8260B
Dilution Factor:	1	1	1	100	1
mp-Xylene	< 1	330	< 1	15000	< 1
o-Xylene	< 1	39	< 1	9100	< 1
Styrene	< 1	< 1	< 1	< 100	< 1
Bromoform	< 2	< 2	< 2	< 200	< 2
IsoPropylbenzene	< 1	76	< 1	300	< 1
Bromobenzene	< 2	< 2	< 2	< 100	< 2
1,1,2,2-Tetrachloroethane	< 2	< 2	< 2	< 100	< 2
1,2,3-Trichloropropane	< 2	< 2	< 2	< 100	< 2
n-Propylbenzene	< 1	230	< 1	500	< 1
2-Chlorotoluene	< 2	< 2	< 2	< 100	< 2
4-Chlorotoluene	< 2	< 2	< 2	< 100	< 2
1,3,5-Trimethylbenzene	< 1	630	< 1	1200	< 1
tert-Butylbenzene	< 1	3	< 1	< 100	< 1
1,2,4-Trimethylbenzene	< 1	1900	< 1	4400	< 1
sec-Butylbenzene	< 1	35	< 1	< 100	< 1
1,3-Dichlorobenzene	< 1	< 1	< 1	< 100	< 1
p-Isopropyltoluene	< 1	28	< 1	< 100	< 1
1,4-Dichlorobenzene	< 1	< 1	< 1	< 100	< 1
1,2-Dichlorobenzene	< 1	< 1	< 1	< 100	< 1
n-Butylbenzene	< 1	140	< 1	< 100	< 1
1,2-Dibromo-3-chloropropane	< 2	< 2	< 2	< 200	< 2
1,2,4-Trichlorobenzene	< 1	< 1	< 1	< 100	< 1
Hexachlorobutadiene	< 1	< 1	< 1	< 100	< 1
Naphthalene	< 5	220	< 5	800	< 5
1,2,3-Trichlorobenzene	< 1	< 1	< 1	< 100	< 1

Deviations from the Report:

MW-13 Parameter: 1,3,5-Trimethylbenzene Date of Analysis: 4/28/2006 Dilution Factor: 50
MW-13 Parameter: 1,2,4-Trimethylbenzene Date of Analysis: 4/28/2006 Dilution Factor: 50
MW-13 The value for n-Butylbenzene may be elevated due to non-target interference.



LABORATORY REPORT

Eastern Analytical, Inc. ID#: 54344

Client: Nobis Engineering

Client Designation: Murphy's Mobil | 49400.19

Sample ID: RW-1

Lab Sample ID: 54344.04

Matrix: aqueous

Date Sampled: 4/24/06

Date Received: 4/24/06

Units: ug/l

Date of Extraction/Prep: 4/25/06

Date of Analysis: 4/26/06

Analyst: BML

Method: 8270C

Dilution Factor: 1

Phenol	31
2-Chlorophenol	< 1
2,4-Dichlorophenol	< 1
2,4,5-Trichlorophenol	< 1
2,4,6-Trichlorophenol	< 1
Pentachlorophenol	< 5
2-Nitrophenol	< 1
4-Nitrophenol	< 5
2,4-Dinitrophenol	< 5
4-Chloro-3-methylphenol	< 1
4,6-Dinitro-2-methylphenol	< 5
Benzoic Acid	< 5
2-Methylphenol	210
3/4-Methylphenol	200
2,4-Dimethylphenol	120

Deviations from the Report:

RW-1	Parameter: 2-Methylphenol	Date of Analysis: 4/27/2006	Dilution Factor: 5
RW-1	Parameter: 3/4-Methylphenol	Date of Analysis: 4/27/2006	Dilution Factor: 5
RW-1	Parameter: 2,4-Dimethylphenol	Date of Analysis: 4/27/2006	Dilution Factor: 5



LABORATORY REPORT

Eastern Analytical, Inc. ID#: 54344

Client: Nobis Engineering

Client Designation: Murphy's Mobil | 49400.19

Sample ID: RW-1

Lab Sample ID: 54344.04

Matrix: aqueous

Date Sampled: 4/24/06

Date Received: 4/24/06

Units: ug/l

Date of Extraction/Preparation 4/25/06

Date of Analysis: 4/26/06

Analyst: BML

Method: 8270C

Dilution Factor: 11

N-Nitrosodimethylamine < 10

n-Nitroso-di-n-propylamine < 10

n-Nitrosodiphenylamine < 10

bis(2-Chloroethyl)ether < 10

bis(2-chloroisopropyl)ether < 10

bis(2-Chloroethoxy)methane < 10

1,3-Dichlorobenzene < 10

1,4-Dichlorobenzene < 10

1,2-Dichlorobenzene < 10

1,2,4-Trichlorobenzene < 10

2-Chloronaphthalene < 10

4-Chlorophenyl-phenylether < 10

4-Bromophenyl-phenylether < 10

Hexachloroethane < 10

Hexachlorobutadiene < 10

Hexachlorocyclopentadiene < 50

Hexachlorobenzene < 10

4-Chloroaniline < 10

2-Nitroaniline < 50

3-Nitroaniline < 10

4-Nitroaniline < 10

Benzyl alcohol 20

Nitrobenzene < 10

Isophorone < 10

2,4-Dinitrotoluene < 10

2,6-Dinitrotoluene < 10

Benzidine < 50

3,3'-Dichlorobenzidine < 10

Pyridine < 50

Azobenzene < 10

Carbazole < 10

Dimethylphthalate < 10

Diethylphthalate < 10

Di-n-butylphthalate < 10

Butylbenzylphthalate < 10

bis(2-Ethylhexyl)phthalate < 10

Di-n-octylphthalate < 10

Dibenzofuran < 10



LABORATORY REPORT

Eastern Analytical, Inc. ID#: 54344

Client: Nobis Engineering

Client Designation: Murphy's Mobil | 49400.19

Sample ID: RW-1

Lab Sample ID: 54344.04

Matrix: aqueous

Date Sampled: 4/24/06

Date Received: 4/24/06

Units: ug/l

Date of Extraction/Prep: 4/25/06

Date of Analysis: 4/26/06

Analyst: BML

Method: 8270C

Dilution Factor: 11

Naphthalene	530
2-Methylnaphthalene	310
Acenaphthylene	< 10
Acenaphthene	< 10
Fluorene	10
Phenanthrene	20
Anthracene	< 10
Fluoranthene	< 10
Pyrene	< 10
Benzo[a]anthracene	< 10
Chrysene	< 10
Benzo[b]fluoranthene	< 10
Benzo[k]fluoranthene	< 10
Benzo[a]pyrene	< 10
Indeno[1,2,3-cd]pyrene	< 10
Dibenz[a,h]anthracene	< 10
Benzo[g,h,i]perylene	< 10

Dilution was required due to high levels of target and non-target analytes.



LABORATORY REPORT

Eastern Analytical, Inc. ID#: 54344

Client: Nobis Engineering

Client Designation: Murphy's Mobil | 49400.19

Sample ID: RW-1

Lab Sample ID: 54344.04

Matrix: aqueous

Date Sampled: 4/24/06

Date Received: 4/24/06

Units: ug/l

Date of Extraction/Prep: 4/25/06

Date of Analysis: 4/26/06

Analyst: BML

Method: 8270C SIM

Dilution Factor: 11

Benzo[a]anthracene	2
Chrysene	1
Benzo[b]fluoranthene	< 1
Benzo[k]fluoranthene	< 1
Benzo[a]pyrene	< 1
Indeno[1,2,3-cd]pyrene	< 1
Dibenz[a,h]anthracene	< 1
Benzo[g,h,i]perylene	< 1

Dilution was required due to high levels of target and non-target analytes.

SIM Technique was employed to provide low level quantitation for these compounds.



LABORATORY REPORT

Eastern Analytical, Inc. ID#: 54344

Client: Nobis Engineering

Client Designation: Murphy's Mobil | 49400.19

Sample ID: RW-1

Lab Sample ID: 54344.04

Matrix: aqueous

Date Sampled: 4/24/06

Date Received: 4/24/06

Units: ug/l

Date of Extraction/Prep: 4/24/06

Date of Analysis: 4/25/06

Analyst: MDM

Method: 8082

Dilution Factor: 1

PCB-1016 < 0.5

PCB-1221 < 0.5

PCB-1232 < 0.5

PCB-1242 < 0.5

PCB-1248 < 0.5

PCB-1254 < 0.5

PCB-1260 < 0.5



LABORATORY REPORT

Eastern Analytical, Inc. ID#: **54344**

Client: **Nobis Engineering**

Client Designation: **Murphy's Mobil | 49400.19**

Sample ID: **RW-1**

Lab Sample ID: **54344.04**

Matrix: **aqueous**

Date Sampled: **4/24/06**

Date Received: **4/24/06**

Chromium (VI)	< 0.05
Antimony	< 0.001
Arsenic	0.005
Cadmium	< 0.001
Chromium	0.006
Copper	0.007
Iron	7.4
Lead	0.084
Mercury	< 0.0001
Nickel	0.007
Selenium	0.003
Silver	< 0.001
Zinc	0.032

Units	Date of Analysis	Method	Analyst
mg/L	4/25/06	7196A	DS
mg/L	4/26/06	200.8	DS
mg/L	4/26/06	200.8	DS
mg/L	4/26/06	200.8	DS
mg/L	4/26/06	200.8	DS
mg/L	4/26/06	200.8	DS
mg/L	4/26/06	200.8	DS
mg/L	4/26/06	200.8	DS
mg/L	4/26/06	200.8	DS
mg/L	4/26/06	200.8	DS
mg/L	4/26/06	200.8	DS
mg/L	4/26/06	200.8	DS
mg/L	4/26/06	200.8	DS
mg/L	4/26/06	200.8	DS
mg/L	4/26/06	200.8	DS

8. Signature Requirements: The Notice of Intent must be signed by the operator in accordance with the signatory requirements of 40 CFR Section 122.22, including the following certification:

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, I certify that the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I certify that I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Facility/Site Name: Murphy's Mobil

Operator signature: 

Title: Project Manager

Date: 5/8/06